New Developments

in

Signal Processing, Bird Detection

and

Clutter Suppression

Douglas W. van de Kamp, David J. Glaze, Michael K. Shanahan
Forecast Systems Laboratory/OAR/NOAA/DoC

James R. Jordan, Bob L. Weber

Environmental Technology Laboratory/OAR/NOAA/DoC

Dale Sirmans

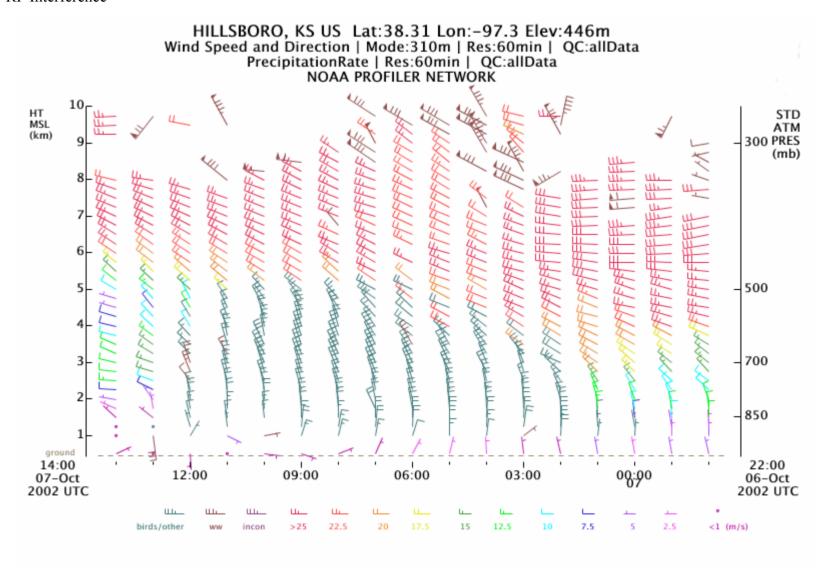
Norman, OK ROC/NWS/NOAA/DoC



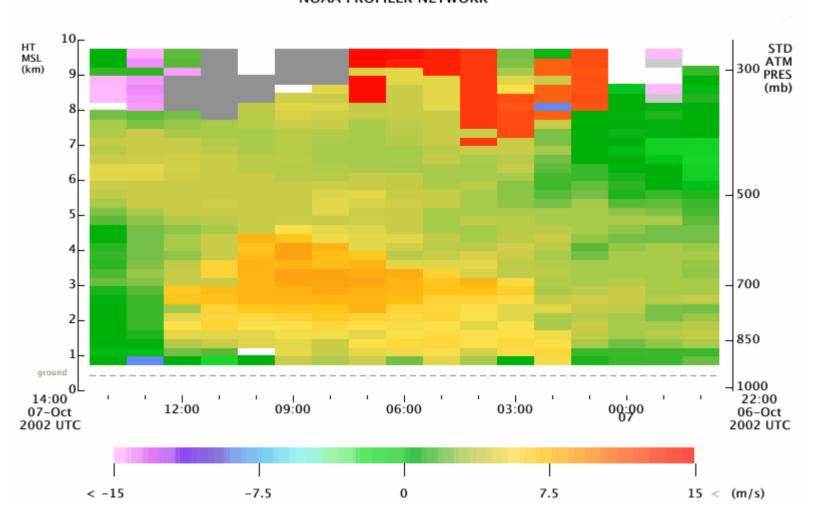


Problem Areas:

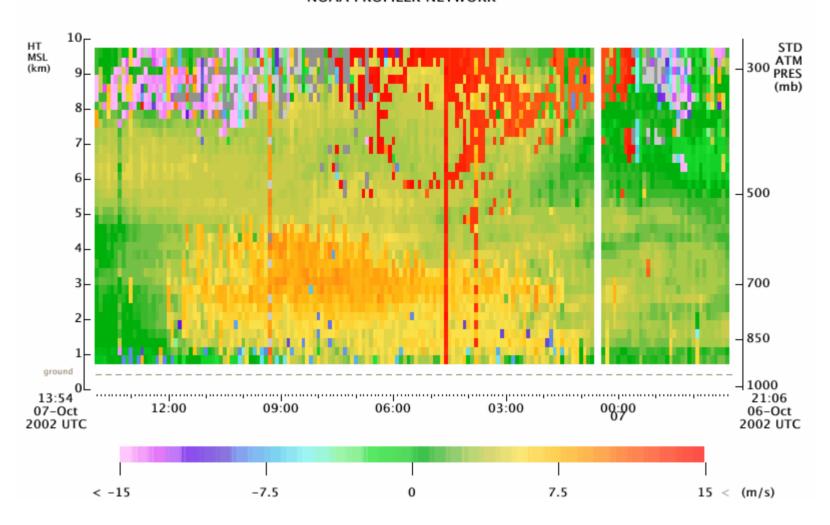
- Birds
- Ground Clutter
- RF Interference



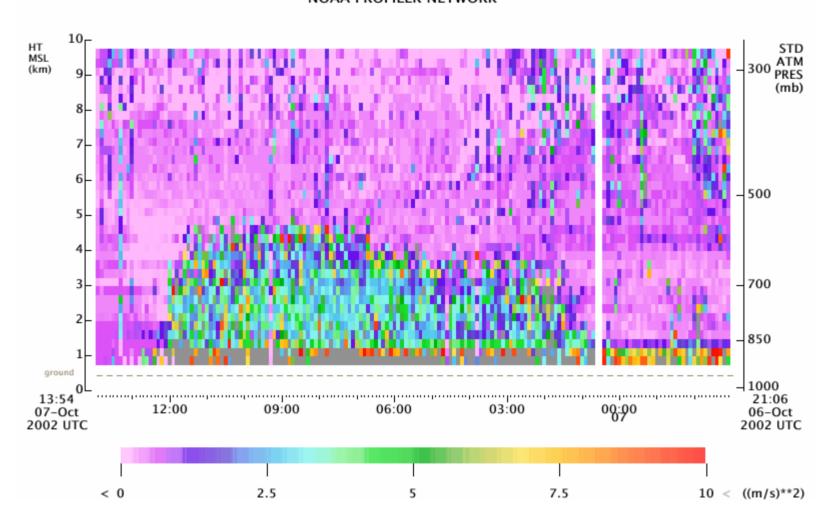
HILLSBORO, KS US Lat:38.31 Lon:-97.3 Elev:446m RadialVelocity | Beam:N(352deg) | Res:60min | QC:allData NOAA PROFILER NETWORK



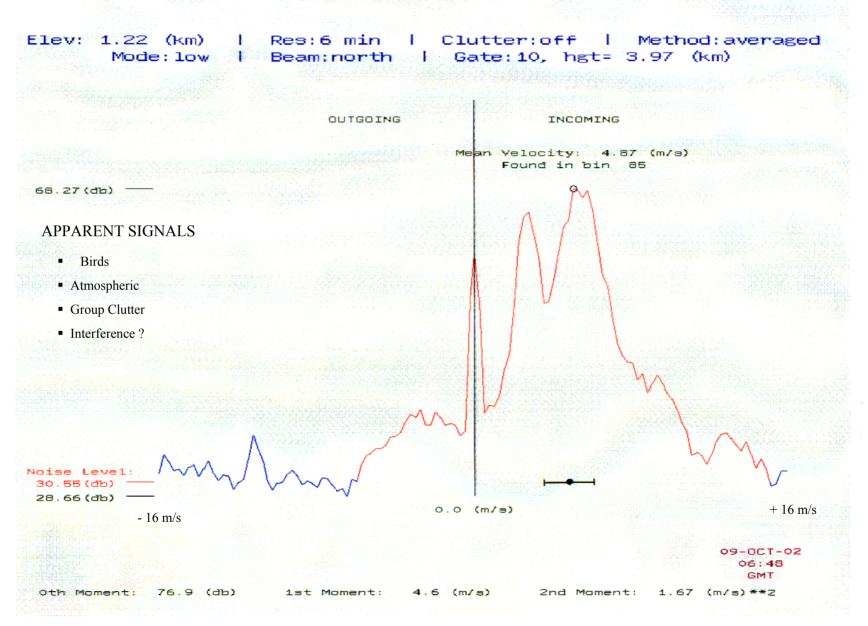
HILLSBORO, KS US Lat:38.31 Lon:-97.3 Elev:446m RadialVelocity | Beam:N(352deg) | Res:6min | QC:allData NOAA PROFILER NETWORK



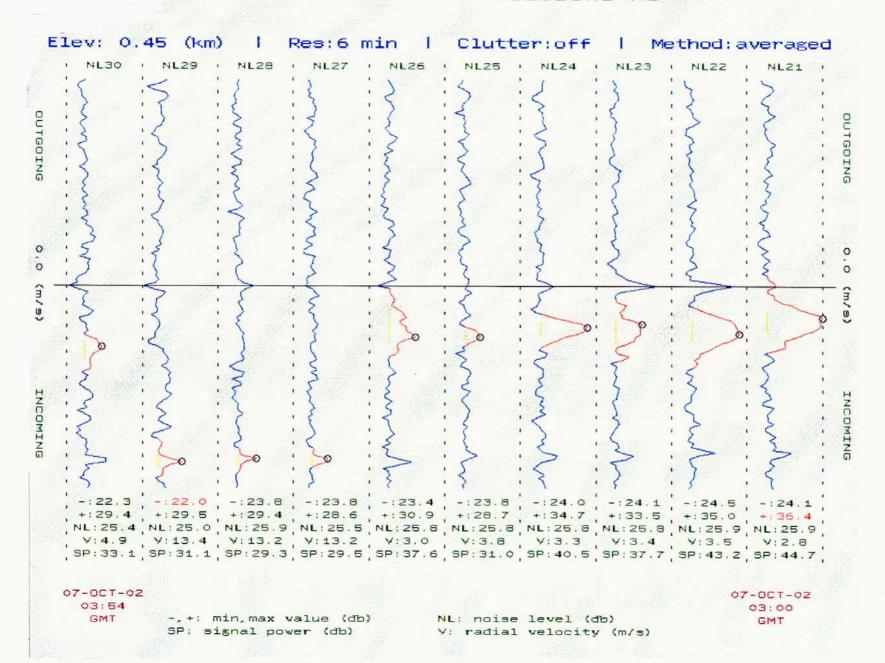
HILLSBORO, KS US Lat:38.31 Lon:-97.3 Elev:446m VelocityVariance | Beam:N(352deg) | Res:6min | QC:allData NOAA PROFILER NETWORK



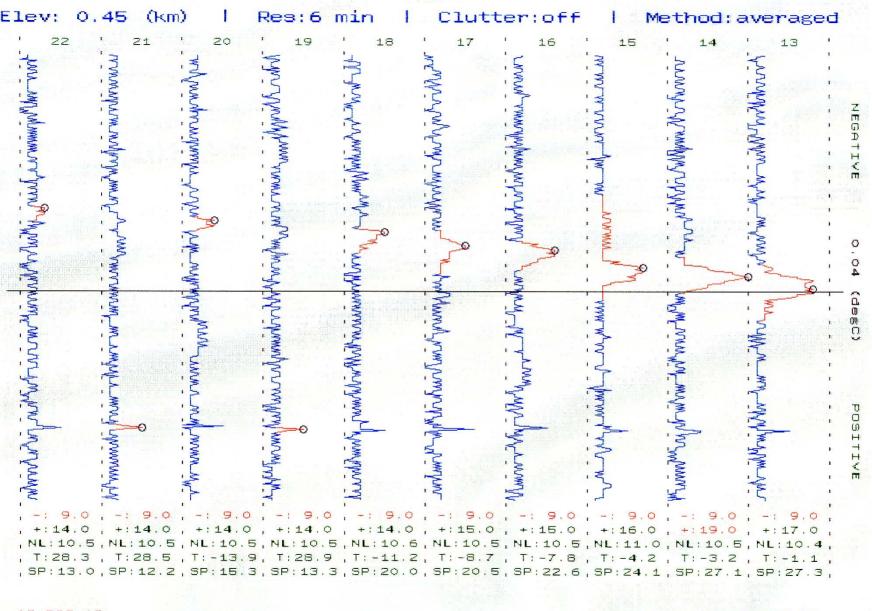
POWER SPECTRUM at WHITE SANDS NM



POWER SPECTRA at HILLSBORD KS

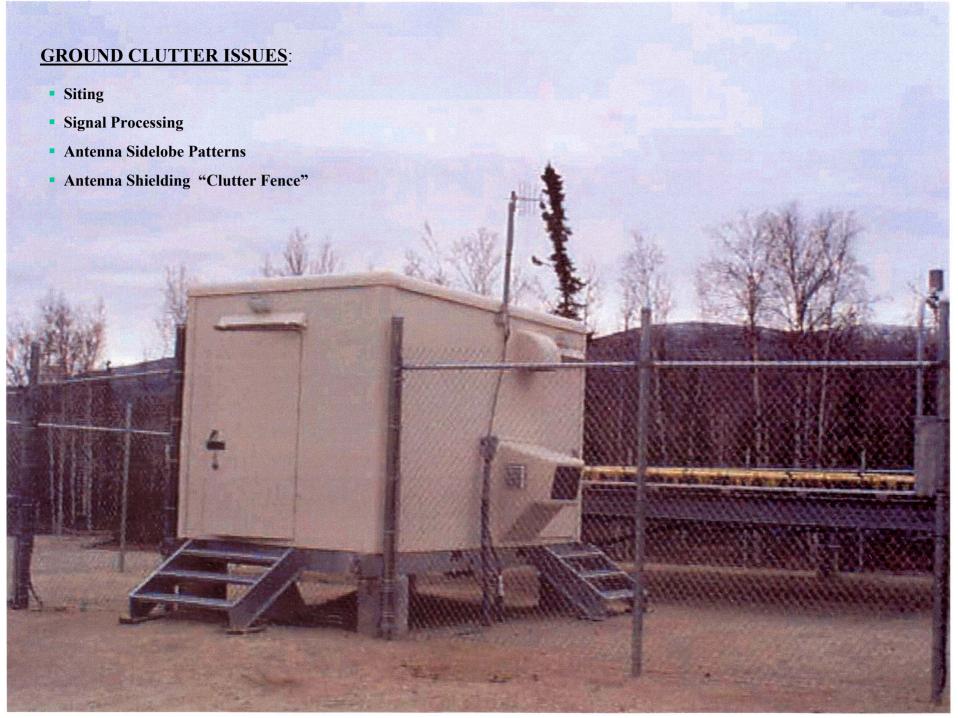


ASS SPECTRA at HILLSBORO KS

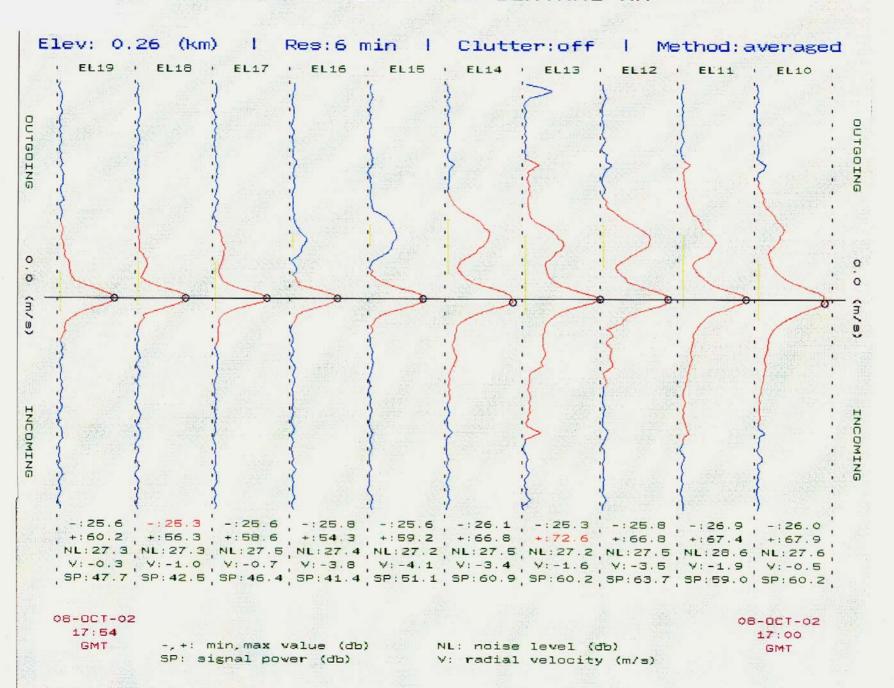


09-00T-02 08:24 GMT

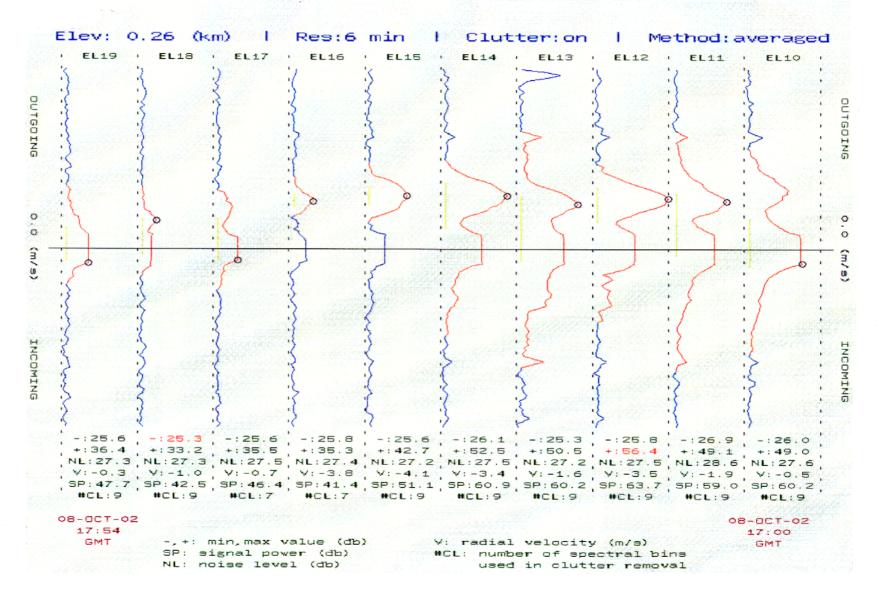
-,+: min,max value (db) SP: signal power (db) NL: noise level (db) T: temperature (degC) 09-00T-02 07:30 GMT.

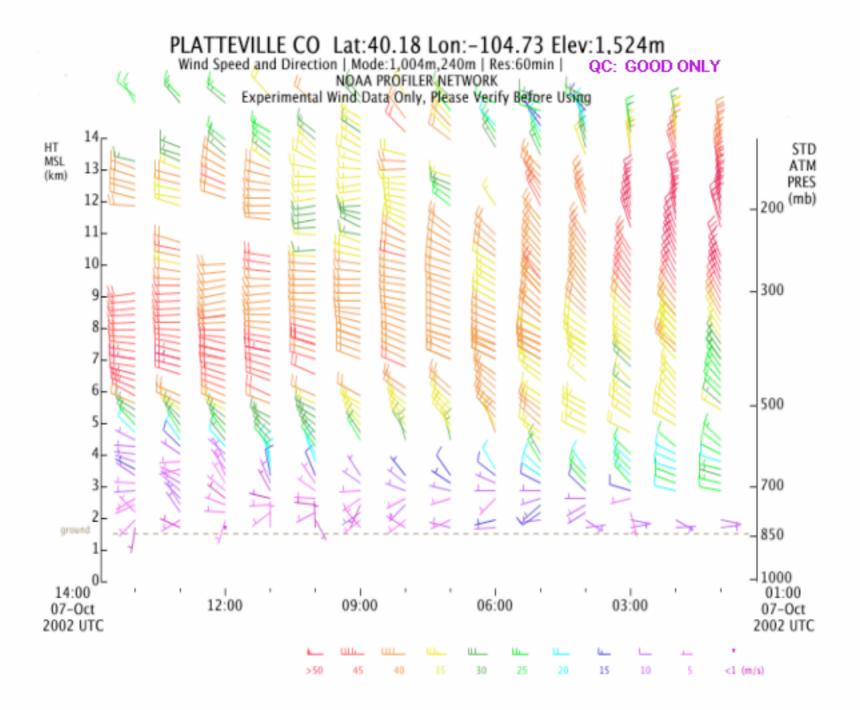


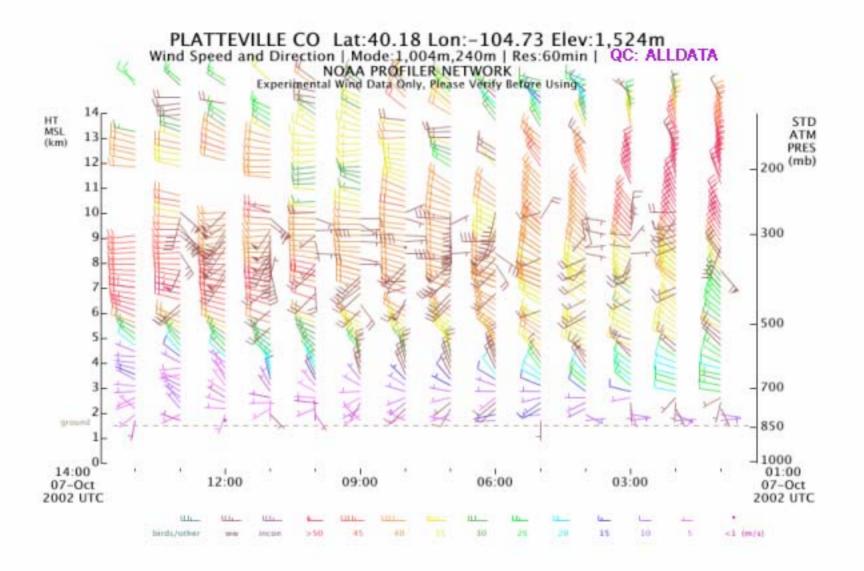
POWER SPECTRA at CENTRAL AK



POWER SPECTRA at CENTRAL AK







Likely Solutions to Problem Areas:

- Data Processing
 - Intelligent Peak Picking/Tracking
 - Wavelet Filtering
- Antenna

